

| Form PTO-1449 | | U.S. Department of Commerce Patent and Trademark Office | | Atty. Docket No. P24677 | | Serial No. 10/748,242 | | | | | | | |
|--|------------|---|---|-------------------------------------|------|-----------------------|---|---------|-------------------------------|--------------------|-------|--|---|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | | | Applicant Ryutaro YAMANAKA et al | | | | | | | | | |
| | | | | Filing Date December 31, 2003 | | Group 2133 | | | | | | | |
| U.S. PATENT DOCUMENTS | | | | | | | | | | | | | |
| EXAMINER INITIAL | | DOCUMENT NUMBER | | | DATE | CLASS | | S | FILING DATE IF APPROPRIATE | | | | |
| <i>lll</i> | | 6 | 1 | 9 | 5 | 7 | 8 | 2 | 02/27/01 | RAHMATULLAH et al | | | |
| <i>lll</i> | | 6 | 2 | 5 | 7 | 7 | 5 | 6 | 07/10/01 | ZARUBINSKY et al | | | |
| <i>lll</i> | | 6 | 4 | 7 | 7 | 6 | 6 | 1 | 11/05/03 | YAMANAKA | | | |
| <i>lll</i> | | 5 | 6 | 3 | 3 | 8 | 9 | 7 | 05/27/97 | FETTWEIS et al | | | |
| <i>lll</i> | | 5 | 9 | 2 | 3 | 7 | 1 | 3 | 07/1999 | HATAKEYAMA | | | |
| <i>lll</i> | | 5 | 3 | 2 | 7 | 4 | 4 | 0 | 07/1999 | FREDRICKSON et al | | | |
| <i>lll</i> | | 5 | 9 | 1 | 2 | 9 | 0 | 8 | 06/1999 | CESARI et al | | | |
| <i>lll</i> | | 5 | 9 | 8 | 7 | 4 | 9 | 0 | 11/1993 | ALIDINA et al | | | |
| <i>lll</i> | | 5 | 2 | 2 | 0 | 5 | 7 | 0 | 06/1993 | LOU et al | | | |
| <i>lll</i> | | 5 | 4 | 1 | 4 | 7 | 3 | 8 | 05/1995 | BIENZ | | | |
| <i>lll</i> | | 5 | 7 | 1 | 0 | 7 | 8 | 4 | 01/1998 | KINDRED et al | | | |
| <i>lll</i> | | 5 | 0 | 2 | 7 | 3 | 7 | 4 | 01/1991 | ROSSMAN | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | | | | | | |
| | | DOCUMENT NUMBER | | | DATE | COUNTRY | | CLASS | SUBCLASS | TRANSLATION YES | NO | | |
| <i>lll</i> | 0 | 9 | - | 1 | 4 | 8 | 9 | 4 | 3 | 06/06/97 | JAPAN | | X |
| <i>lll</i> | 6 | 3 | - | 2 | 1 | 5 | 2 | 2 | 7 | 09/07/88 | JAPAN | | X |
| <i>lll</i> | 6 | - | 1 | 6 | 4 | 4 | 2 | 3 | | 06/10/94 | JAPAN | | |
| <i>lll</i> | 8 | - | 8 | 4 | 0 | 8 | 2 | | | 09/14/94 | JAPAN | | |
| <i>lll</i> | 9 | - | 1 | 4 | 8 | 9 | 4 | 3 | | 11/17/95 | JAPAN | | |
| <i>lll</i> | 1 | 0 | - | 1 | 0 | 7 | 6 | 5 | 1 | 04/24/98 | JAPAN | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | | | | | | |
| <i>lll</i> | 1 | English Language Abstract JP 09-148943. | | | | | | | | | | | |
| <i>lll</i> | 2 | English Language Abstract JP 63-215227. | | | | | | | | | | | |
| <i>lll</i> | 3 | UEDA et al., "A 16-bit Digital Signal Processor with Specially Arranged Multiply-Accumulator for Low Power Consumption", IEICE Trans. Electron. Vol. E78-C, No. 12, December 1995. | | | | | | | | | | | |
| EXAMINER | <i>lll</i> | | | | | DATE CONSIDERED | | 7/31/06 | | | | | |
| *EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | | | | | | | |

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| | | Filing Date December 31, 2003 | | | Group 2133 | | | | | | |
| U.S. PATENT DOCUMENTS | | | | | | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | | | | DATE | NAME | | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
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| | 5 | 7 | 4 | 2 | 6 | 2 | 1 | 08/1998 | AMON et al | | |
| | 6 | 2 | 6 | 3 | 4 | 7 | 4 | 07/17/01 | WATANABE | | |
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| | 6 | 3 | 3 | 0 | 6 | 8 | 4 | 12/2001 | YAMANAKA et al | | |
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| | 5 | 5 | 0 | 2 | 7 | 3 | 5 | 03/1996 | COOPER | | |
| | 5 | 3 | 7 | 5 | 1 | 2 | 9 | 12/1994 | COOPER | | |
| | 5 | 3 | 7 | 9 | 3 | 0 | 6 | 01/1995 | NOMA et al | | |
| | 4 | 6 | 1 | 4 | 9 | 3 | 3 | 09/1986 | YAMASHITA et al | | |
| | 6 | 1 | 2 | 5 | 1 | 5 | 3 | 09/26/00 | SUGISAWA et al | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | | | | |
| | DOCUMENT NUMBER | | | | DATE | COUNTRY | | CLASS | SUBCLASS | TRANSLATION YES NO | |
| 1 | 0 | - | 2 | 0 | 9 | 8 | 8 | 2 | 08/07/98 | JAPAN | |
| | 1 | 1 | - | 5 | 5 | 1 | 3 | 0 | 02/26/99 | JAPAN | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | | | | |
| | 4 H. LOU, "Viterbi Decoder Design for the IS-95 CDMA Forward Link", IEEE 46th Vehicular Technology Conference, No. 2, 1996, pp.1346-1350. | | | | | | | | | | |
| | 5 English Language Abstract of JP6-164423. | | | | | | | | | | |
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| EXAMINER | DATE CONSIDERED 7/31/06 | | | | | | | | | | |

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